FAIRWEATHER

GENERAL NOTES

1. THIS DRAWING WAS DEVELOPED UNDER TAR SSI-041(04) BASED ON A SHIPCHECK CONDUCTED AT CASCADE GENERAL, INC. IN PORTLAND, OREGON ON APRIL 26-30, 2004, FOLLOWING THE ACTIVATION AND CONVERSION OF THE NOAA SHIP FAIRWEATHER.

2. THIS DRAWING SUPERSEDES REFERENCE NO. 1.

SHEET INDEX

SHT NO.	SHEET TITLE
1	TITLE SHEET
2	DATA SHEET
3	STARBOARD OUTBOARD PROFILE
4	INBOARD PROFILE
5	PLAN OF "A" DECK INNERBOTTOM & PLAN OF "B" DECK TANK TOP
6	PLAN OF "C" 2ND DECK
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8	PLAN OF "E" SUPERSTRUCTURE
9	PLAN OF "F" NAVIGATION BRIDGE & PLAN OF "G" TOP OF HOUSE

REVISIONS

REV	SHT	ZONE	ITEM	DESCRIPTION	DATE	APPD
A	2	12B	1	REV'D FUEL CAPACITY	10/04/04	RJH
	4	27C	2	ADDED FLAG LOCKER TO INBD PROFILE		
	5,6,7	VAR	3	MODIFIED SPACE DESIGNATIONS		
	5	36B	4	REV'D COMPRESSOR LAYOUT		
	6	45B,C	5	REV'D ENG. RM STORAGE TANKS AND EQUIPMENT DESCRIPTIONS		
	7	56C	6	REV'D A-FRAME, DECK EQUIPMENT		
	9	69B	7	REMOVED LONG WIRE ANTENNA		
	9	68D	8	REV'D PORT SIDE DECK EXT'N LAYOUT		
	9	68D	9	REV'D BRIDGE EQUIPMENT DESCRIPTIONS		
B	VAR	VAR	1	SPACE DESIGNATION REVISIONS PER SHIP'S CREW COMMENTS, FEB 05	04/05/05	RJH

REFERENCES

NO	TITLE	DRAWING NO
1	BOOKLET OF GEN. PLANS	S0900-2-1
2	-	-
3	-	-
4	-	-
5	-	-

NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
OFFICE OF MARINE & AVIATION OPERATIONS

Seaworthy Systems, Inc.
P.O. BOX 965
ESSEX, CT 06426
TEL: (860) 767-9061

CONTRACT #
50-ABNA-0-00032
TAR-SSI-041-(04)

DSGN -/-/--
DWN 04/28/04 LAP
CHK 07/09/04 JEK
CHK -/-/--

NOAA APPROVAL

NOAA SHIP FAIRWEATHER

BOOKLET OF GENERAL PLANS

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	FA-S0201-1	B

SCALE: AS NOTED

CAD FILENAME FA-S0201-1 SHT 1 OF 9

DECK MACHINERY

TYPE	MANUFACTURER	PULL\CAPACITY	QTY
FIXED LENGTH CRANE	SKAGIT	5,000 POUNDS	1
TELESCOPING BOOM CRANE	SKAGIT	2,500 POUNDS	2
CAPSTAN (AFT)	CLYDE	13,500 POUNDS	1
FANTAIL A–FRAME	--	8,000 POUNDS	1
FANTAIL J–FRAME	--	4,000 POUNDS	1
BOW CAPSTAN (ANCHOR WINDLASS)	--	---	1

ENGINEERING

TYPE	MANUFACTURER	RATING	QTY
MAIN PROPULSION (GEARED DIESEL)	GENERAL MOTORS	1,200 HP (EA)	2
AUXILIARY PROPULSION (BOW THRUSTER)	DETROIT DIESEL/BIRD JOHNSON	200 HP	1
PROPELLERS (3 BLADE/CONTROLLABLE PITCH)	BROWER	8'–6" DIAMETER	2
SHIP'S SERVICE GENERATORS (450 VAC)	DETROIT DIESEL/GE	300 KW	2
EMERGENCY GENERATOR (450 VAC)	DETROIT DIESEL/GE	75 KW	1
STEERING GEAR (ELECTRO–HYDRAULIC)	LIGERWOOD	– –	1

NOTE: ELECTRICAL SERVICE: 450 VAC 3 PHASE; 120 VAC 3 PHASE; 120 VAC SINGLE PHASE

LAUNCHES & SMALL BOATS

TYPE	PROPULSION	LENGTH	QTY
ALUMINUM OPEN BOAT (WORKBOAT) (MONARK)	GASOLINE OUTBOARD	17 FEET	1
TYPE I ALUMINUM HYDRO–SURVEY LAUNCH (JENSEN)	DIESEL	29 FEET	2
RIB–RESCUE ZODIAC	DIESEL	22 FEET	1
RIB–UTILITY AMBAR	DIESEL	7 METERS	1

ELECTRONICS

COMMUNICATIONS

VHF/FM TRANSCEIVERS
HF TRANSCEIVERS
EPIRB'S
EMERGENCY RADIO AUTO ALARM
PORTABLE EMERGENCY TRANSCEIVER
WEATHER FACSIMILE RECEIVER
GPS
IMARSAT

ACOUSTICS

ABISS IMO DEPTH SOUNDER
SHALLOW–WATER ECHO SOUNDER
HYDROGRAPHIC SURVEY SOUNDERS
RESON 8111 MULTI–BEAM
RESON 8160
SIDE SCAN SONAR

NAVIGATION

RADAR (X & S BAND)
GYROCOMPASS (2)
PRECISION POSITIONING EQUIPMENT (POS MV)

SCIENTIFIC EQUIPMENT

CTD SYSTEM (SHALLOW WATER)
SHIPBOARD ENVIRONMENTAL ACQUISITION SYSTEM (SEAS)
MOVING VESSEL PROFILER
DWS SSS WINCH
TSG (HULL MOUNT)

HABITABILITY

SINGLE STATEROOMS	24
DOUBLE STATEROOMS	17
SICK BAY	1
TOTAL BUNKS	58
CREW'S MESS SEATING	32

SCIENTIFIC LABORATORY FACILITIES

WET LAB (D–09–102)	218 Sq Ft
LAB #2 (D–07–102)	330 Sq Ft
COMP NETWORK (F–06–002)	191 Sq Ft
DATA PROCESSING CTR #1 (F–04–002)	340 Sq Ft
DATA PROCESSING CTR #2 (D–04–103)	146 Sq Ft

FRESHWATER SYSTEM

DISTILLERS (ALFA–LAVAL, MODEL JWP–26–C80)	2
MAXIMUM PRODUCTION	8,000 GPD
NORMAL CONSUMPTION	3,500 GPD
STORAGE CAPACITY	16,000 GALLONS

SEWAGE WASTE CONTROL

SYSTEM TYPE	ELECTROCATALYTIC
MANUFACTURER	OMNIPURE
HOLDING CAPACITY:	
GREY WATER HOLDING TANK B–08–002	3233 GALLONS
GREY WATER HOLDING TANK A–04–001	1846 GALLONS
FWD LIFT STATION TANK	313 GALLONS
AFT LIFT STATION TANK	253 GALLONS

OILY WASTE CONTROL

SYSTEM TYPE	OILY WATER SEPARATOR
MANUFACTURER	PARAMATIC, MODEL S1–8–A
CAPACITY	8 GPM

FUEL SYSTEM

FUEL TYPE	#2 DIESEL
FUEL CONSUMPTION	120 GPH
FUEL CAPACITY	63,476 GALLONS

MISC. EQUIPMENT

STOCKLESS ANCHOR/3,000 LBS (EA)	2
1 3/8" STUD LINK CHAIN (165 FATHOMS)	2
WELIN LAMBIE DAVITS (SETS)	4
LIFE RAFTS (CAPACITY EACH SIDE)	150%
VEST 3600	1
VEST 2500	1

GENERAL CHARACTERISTICS

LENGTH OVERALL	231'–0"
LENGTH BETWEEN PERPENDICULARS	198'–0"
LENGTH DESIGN LOAD LINE	197'–0"
BREADTH (MOLDED)	42'–0"
DEPTH (MOLDED)	20'–0"
DEADWEIGHT	974 TONS
DISPLACEMENT	1,800 TONS
GROSS TONNAGE	1,591 TONS
NET TONNAGE	578 TONS
SPEED (CRUISE)	11 KNOTS
SPEED (MAX)	14.5 KNOTS

COMPLEMENT

COMMISSIONED OFFICERS	8
LICENSED OFFICERS	4
CREW	52
SCIENTISTS	6

GENERAL INFORMATION

LAUNCHED	MARCH 1967
DELIVERED	JANUARY 1968
COMMISSIONED	OCTOBER 1968
REACTIVATED (CASCADE GENERAL, INC., PORTLAND, OR.)	JUNE 2004
CALL LETTERS	WTEB
DESIGNER	MARITIME ADMINISTRATION
BUILDER	AEROJET–GENERAL SHIPYARDS JACKSONVILLE,FL.
SISTER SHIPS	RAINIER, MT. MITCHELL
HOME PORT	KETCHIKAN, AK
HULL	WELDED STEEL/ICE STRENGTHENED
ENDURANCE	22 DAYS
ENDURANCE CONSTRAINT	STABILITY
RANGE	5,898 NM

ABS CLASSIFICATION A1 (E) ICE STRENGTHENED

PREPARED BY:
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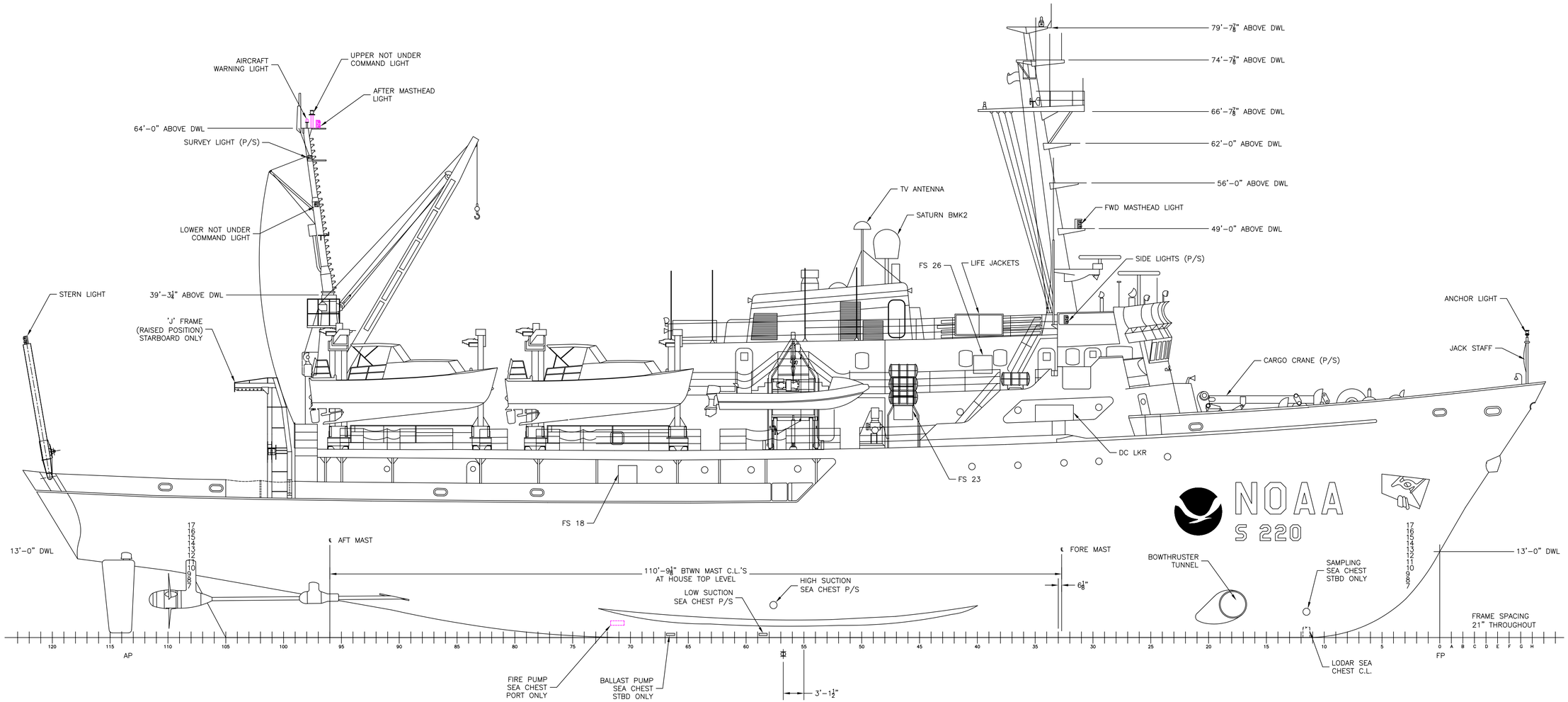
TEL: (860) 767–9061

SIZE	CAGE CODE	NOAA DRAWING NUMBER	REV
D	0YLJ5	FA–S0201–1	B
SCALE: AS SHOWN	CAD FILENAME FA–S0201–1	SHT 2 OF 9	



OUTBOARD PROFILE

MA DESIGN SI-MA-72A

SCALE: 1/8 IN = 1 FT

1/8"=1'-0"

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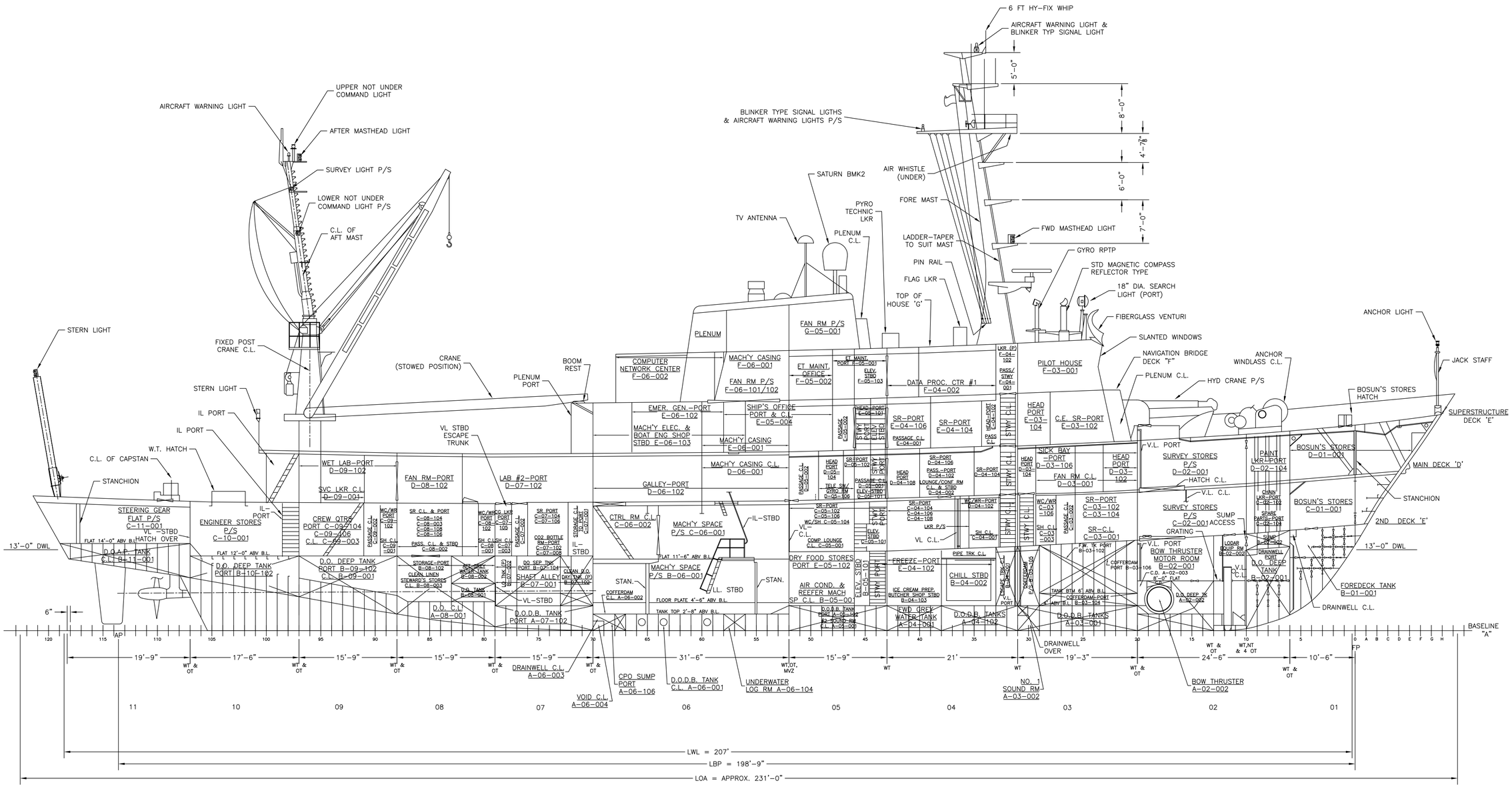
6 FT HY-FIX WHIP
AIRCRAFT WARNING LIGHT & BLINKER TYP SIGNAL LIGHT
5'-0"
8'-0"
4'-7½"
6'-0"
7'-0"
BLINKER TYPE SIGNAL LIGTHS & AIRCRAFT WARNING LIGHTS P/S
AIR WHISTLE (UNDER)
SATURN BMK2
PYRO TECHNIC LKR
FORE MAST
TV ANTENNA
PLENUM C.L.
FWD MASTHEAD LIGHT
LADDER-TAPER TO SUIT MAST
GYRO RPTP
PIN RAIL
STD MAGNETIC COMPASS REFLECTOR TYPE
FLAG LKR
18" DIA. SEARCH LIGHT (PORT)
TOP OF HOUSE 'G'
FIBERGLASS VENTURI
SLANTED WINDOWS
NAVIGATION BRIDGE DECK "F"
ANCHOR WINDLASS C.L.
PLENUM C.L.
HYD CRANE P/S
ANCHOR LIGHT
JACK STAFF
BOSUN'S STORES HATCH
SUPERSTRUCTURE DECK 'E'
MAIN DECK 'D'
STANCHION
2ND DECK 'E'
13'-0" DWL
FOREDECK TANK B-01-001
DRAINWELL C.L.
BASELINE "A"
UPPER NOT UNDER COMMAND LIGHT
AIRCRAFT WARNING LIGHT
AFTER MASTHEAD LIGHT
SURVEY LIGHT P/S
LOWER NOT UNDER COMMAND LIGHT P/S
C.L. OF AFT MAST
STERN LIGHT
FIXED POST CRANE C.L.
CRANE (STOWED POSITION)
BOOM REST
PLENUM PORT
STERN LIGHT
IL PORT
IL PORT
W.T. HATCH
C.L. OF CAPSTAN
STANCHION
VL STBD ESCAPE TRUNK
STEERING GEAR FLAT P/S C-11-001
VL STBD HATCH OVER
ENGINEER STORES P/S C-10-001
IL-PORT
IL-STBD
13'-0" DWL
FLAT 14'-0" ABV B.L.
FLAT 12'-0" ABV B.L.
FLAT 11'-6" ABV B.L.
FLOOR PLATE 4'-6" ABV B.L.
TANK TOP 2'-8" ABV B.L.
6"
D.O.A.P. TANK C.L. B-11-001
D.O. DEEP TANK PORT B-10-102
D.O. DEEP TANK PORT B-09-102
C.L. B-09-001
D.O. C.L. A-08-001
D.O.D.B. TANK PORT A-07-102
SHAFT ALLEY B-07-001
VL-STBD
DRAINWELL C.L. A-06-003
VOID C.L. A-06-004
CPO SUMP PORT A-06-106
D.O.D.B. TANK C.L. A-06-001
UNDERWATER LOG RM A-06-104
NO. 1 SOUND RM A-03-002
BOW THRUSTER A-02-002
DRAINWELL OVER
FP
AP
WET LAB-PORT D-09-102
SVC LKR C.L. D-09-001
FAN RM-PORT D-08-102
LAB #2-PORT D-07-102
GALLEY-PORT D-06-102
CREW QTRS PORT C-09-104 C-09-106 C.L. C-09-003
CLEAN LINEN STEWARD'S STORES C.L. B-08-003
CTRL RM C.L. C-06-002
MACH'Y SPACE P/S C-06-001
MACH'Y SPACE P/S B-06-001
MACH'Y CASING C.L. D-06-001
MACH'Y CASING F-06-001
MACH'Y ELEC. & BOAT ENG SHOP STBD E-06-103
EMER. GEN.-PORT E-06-102
SHIP'S OFFICE PORT & C.L. E-05-004
COMPUTER NETWORK CENTER F-06-002
FAN RM P/S F-06-101/102
ET MAINT. OFFICE F-05-002
ET MAINT. PORT F-05-001
ELEV. STBD F-05-103
DATA PROC. CTR #1 F-04-002
FAN RM P/S G-05-001
PLENUM
DRY FOOD STORES PORT F-05-102
AIR COND. & REEFER MACH SP C.L. B-05-001
D.O.D.B. TANK #2 SOUND RM C.L. A-05-001
FREEZE-PORT F-04-102
ICE CREAM PREP. BUTCHER SHOP STBD B-04-103
CHILL STBD B-04-002
FWD GREY WATER TANK A-04-DSU
D.O.D.B. TANKS A-04-102
PILOT HOUSE F-03-001
HEAD PORT F-03-104
C.E. SR-PORT E-03-102
SICK BAY -PORT D-03-106
FAN RM C.L. D-03-001
HEAD PORT D-03-102
SURVEY STORES P/S D-02-001
PAINT LKR-PORT D-02-104
BOSUN'S STORES D-01-001
SURVEY STORES P/S C-02-001
SUMP ACCESS
BOSUN'S STORES C-01-001
BOW THRUSTER MOTOR ROOM B-02-001
D.O. DEEP TANK B-02-001
SR-PORT E-04-106
SR-PORT E-04-104
SR-PORT C-05-102 C-05-106
SR-PORT C-04-104 C-04-106 C-04-108
SR-PORT C-03-102 C-03-104
SR-C.L. C-03-001
SR-PORT D-04-106
SR-PORT D-04-104
LOUNGE/CONF RM C.L. & STBD D-04-002
SR-PORT C-07-104 C-07-106
SR-PORT C-07-102 C-07-008
SR-PORT C-08-104 C-08-103 C-08-108 C-08-106
SR C.L. & PORT C-08-002
SR-PORT C-08-102
SR-PORT C-08-101
SR-PORT C-08-103
SR-PORT C-08-105
SR-PORT C-08-107
SR-PORT C-08-109
SR-PORT C-08-111
SR-PORT C-08-113
SR-PORT C-08-115
SR-PORT C-08-117
SR-PORT C-08-119
SR-PORT C-08-121
SR-PORT C-08-123
SR-PORT C-08-125
SR-PORT C-08-127
SR-PORT C-08-129
SR-PORT C-08-131
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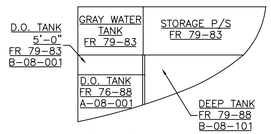
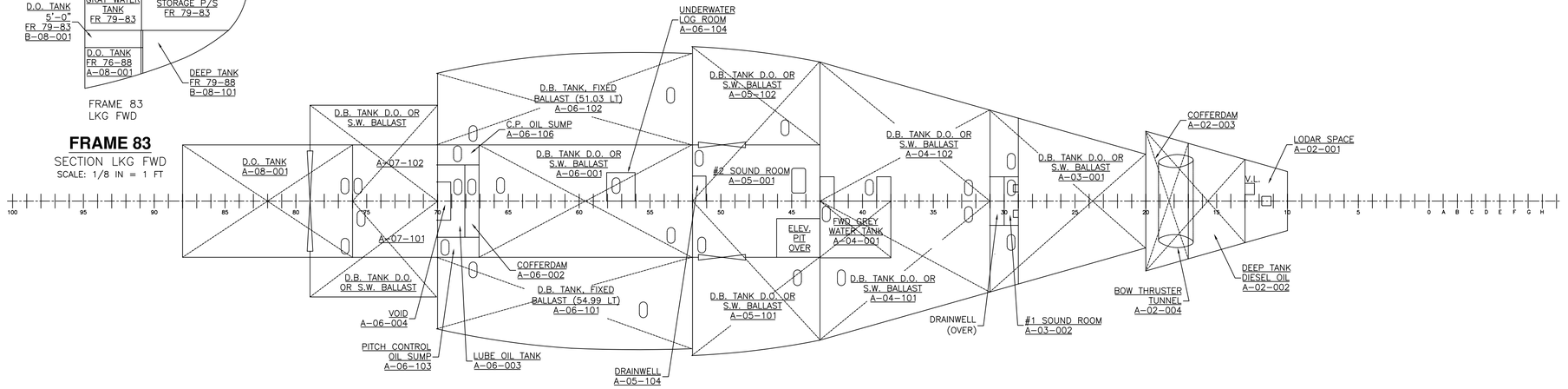
SR-PORT C-08-135
SR-PORT C-08-137
SR-PORT C-08-139
SR-PORT



FRAME 83
LKG FWD

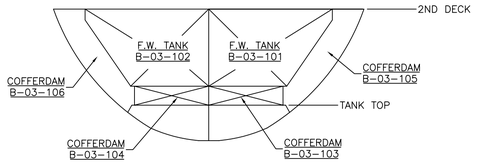
FRAME 83

SECTION LKG FWD
SCALE: 1/8 IN = 1 FT



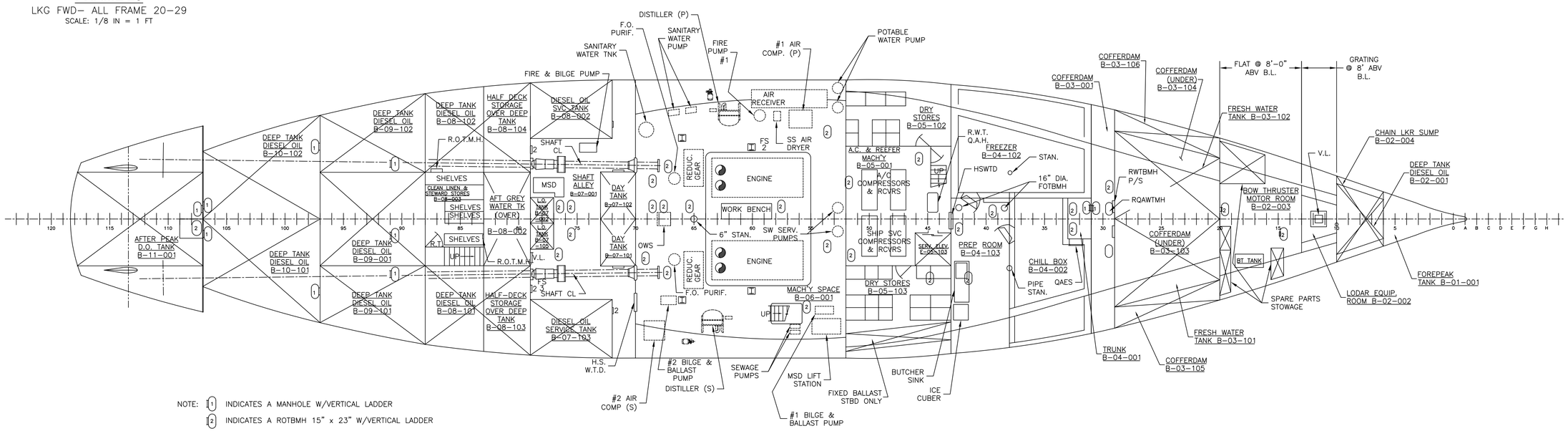
INNERBOTTOM

"A" DECK
SCALE: 1/8 IN = 1 FT



FRAME 29

LKG FWD- ALL FRAME 20-29
SCALE: 1/8 IN = 1 FT



NOTE: (1) INDICATES A MANHOLE W/VERTICAL LADDER
(2) INDICATES A ROTBMH 15" x 23" W/VERTICAL LADDER

TANK TOP

"B" DECK
SCALE: 1/8 IN = 1 FT

1"=1'-0"

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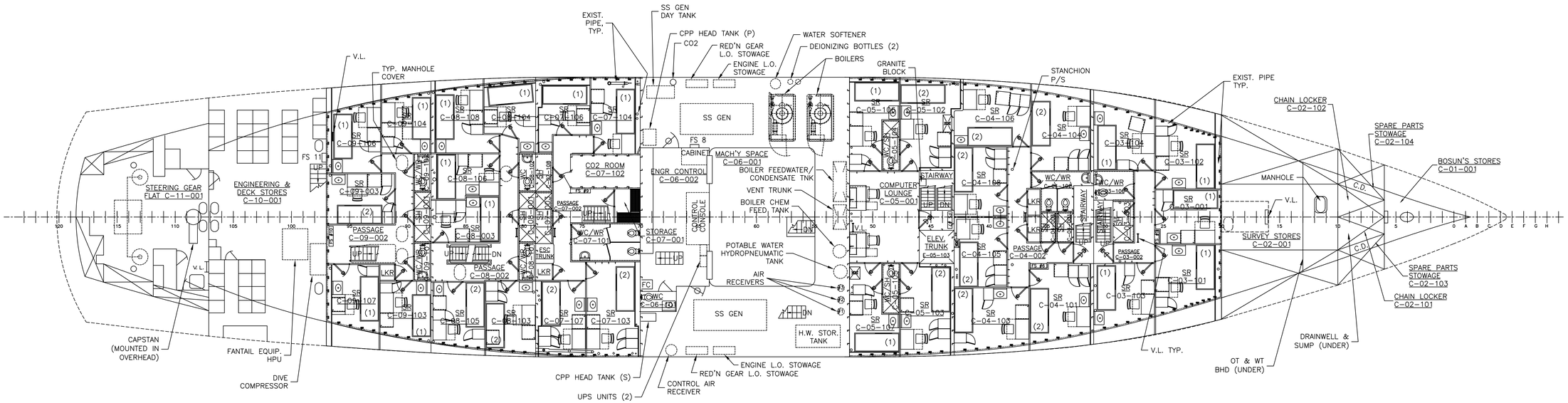

SECOND DECK

"C" DECK

SCALE: 1/8 IN = 1 FT

1/8"=1'-0"

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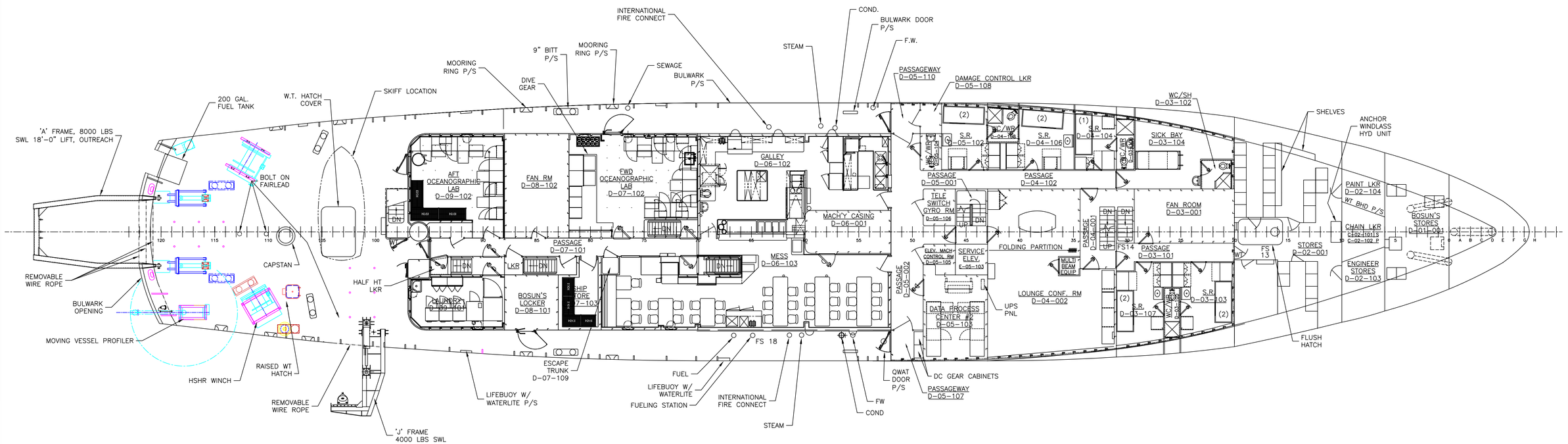
	SCALE: AS SHOWN	CAD FILENAME: FA-S0201-1	SHT 6 OF 9



MAIN DECK

"D" DECK

SCALE: 1/8 IN = 1 FT

1/8"=1'-0"

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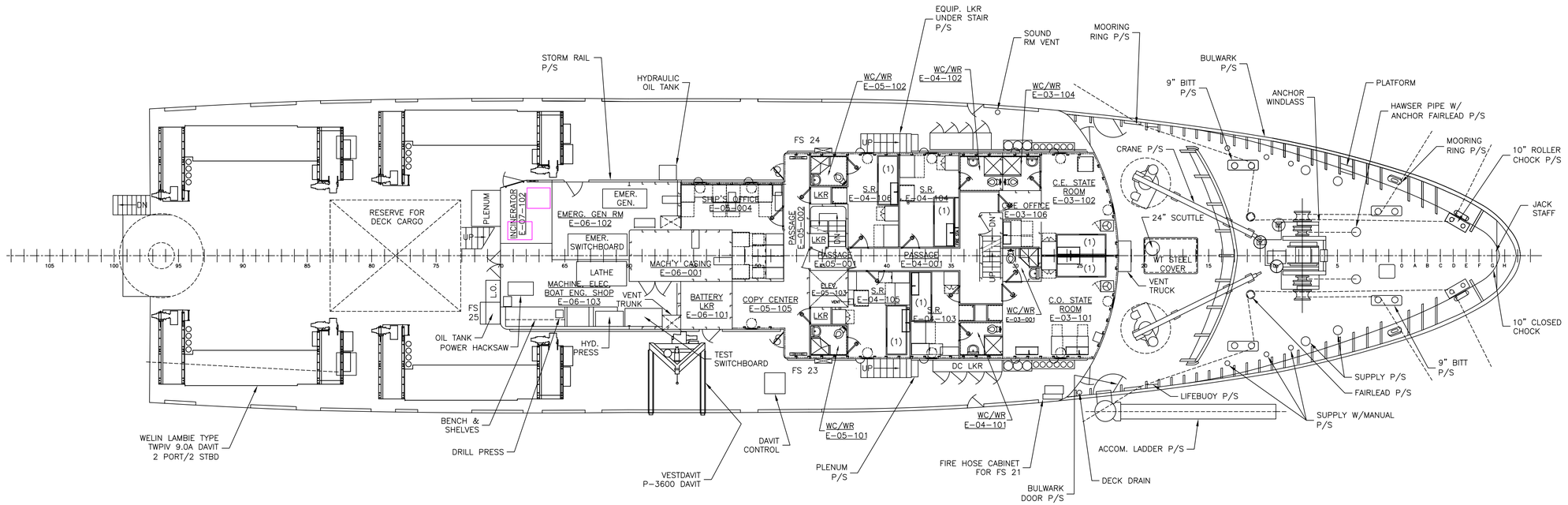

SUPERSTRUCTURE

"E" DECK

SCALE: 1/8 IN = 1 FT

1/8"=1'-0"

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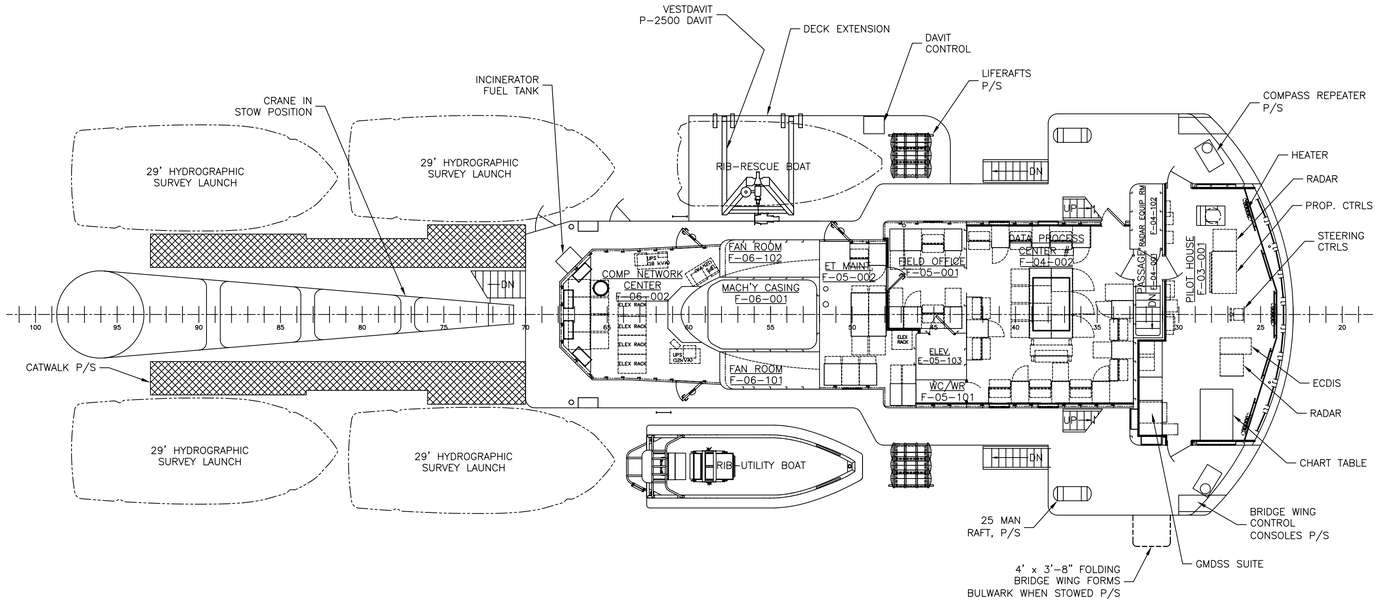
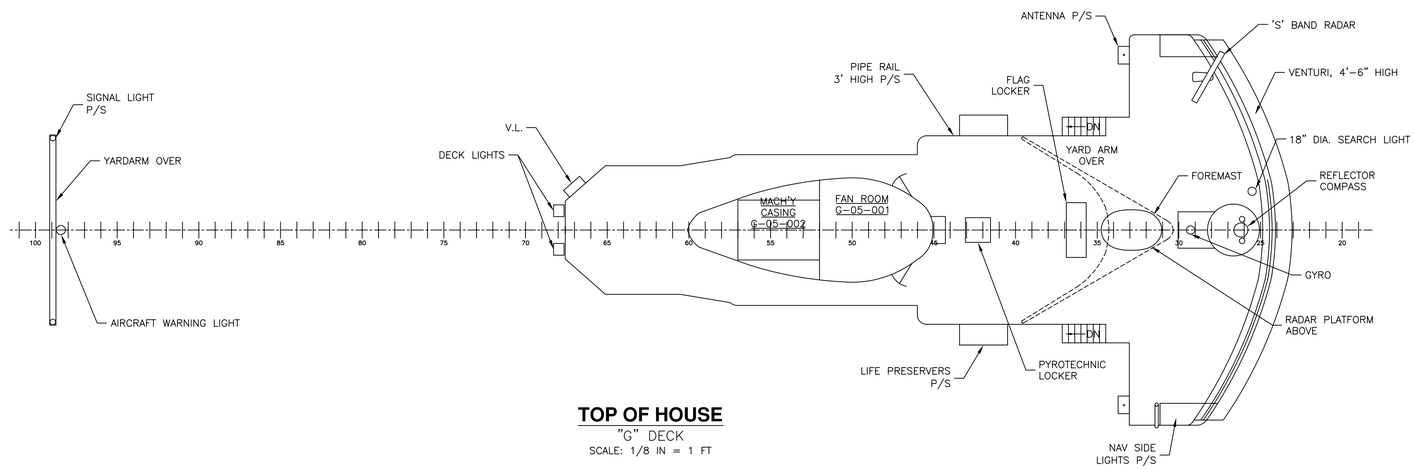
	SCALE: AS SHOWN	CAD FILENAME: FA-S0201-1	SHT 8 OF 9	



NAVIGATION BRIDGE

"F" DECK

SCALE: 1/8 IN = 1 FT



TOP OF HOUSE

"G" DECK

SCALE: 1/8 IN = 1 FT

1" = 1'-0"

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	SCALE: AS SHOWN	CAD FILENAME: FA-S0201-1	SHT 9 OF 9